



In re Application of:

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**Group Art Unit: 2891**

Examiner: Granvill D. Lee

**MAIL STOP AMENDMENT**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

I hereby certify that this correspondence is being deposited on September 29, 2005 with the United States Postal Service as First Class Mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

**Brian K. Hrna**

1

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

The Commissioner is hereby authorized to charge the sum of \$180.00 due under 37 CFR § 1.17(p) pursuant to § 1.97, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/APPM/008670/BKH.

Respectfully submitted,



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|                                                                                                                                                 |       |                        |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|--------------------------|
| Substitute for form 1449A/PTO<br><b>SUPPLEMENTAL<br/>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(Use as many sheets as necessary) |       | Application Number     | 10/801,190               |
|                                                                                                                                                 |       | Filing Date            | March 15, 2004           |
|                                                                                                                                                 |       | First Named Inventor   | Lihua Li, et al.         |
|                                                                                                                                                 |       | Group Art Unit         | 2891                     |
|                                                                                                                                                 |       | Examiner Name          | Granvill D. Lee          |
|                                                                                                                                                 |       | Attorney Docket Number | APPM/008670/DSM/LOW K/JW |
| Sheet 1                                                                                                                                         | of 10 | Submission Date        | September 29, 2005       |

## U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                    | A1                    | US-3,510,369                             | 5/5/1970                       | Emick, et al.                                      |                                                                                 |
|                    | A2                    | US-4,262,631                             | 4/21/1981                      | Kubacki                                            |                                                                                 |
|                    | A3                    | US-4,532,150                             | 7/30/1985                      | Endo et al.                                        |                                                                                 |
|                    | A4                    | US-4,634,601                             | 1/6/1987                       | Hamakawa, et al.                                   |                                                                                 |
|                    | A5                    | US-4,649,071                             | 3/10/1987                      | Tajima, et al.                                     |                                                                                 |
|                    | A6                    | US-4,759,947                             | 7/26/1988                      | Hishihara, et al.                                  |                                                                                 |
|                    | A7                    | US-4,872,947                             | 10/10/1989                     | Wang, et al.                                       |                                                                                 |
|                    | A8                    | US-4,894,352                             | 1/16/1990                      | Lane, et al.                                       |                                                                                 |
|                    | A9                    | US-4,895,734                             | 1/23/1990                      | Yoshida, et al.                                    |                                                                                 |
|                    | A10                   | US-4,951,601                             | 8/28/1990                      | Maydan, et al.                                     |                                                                                 |
|                    | A11                   | US-4,981,724                             | 1/1/1991                       | Hochberg, et al.                                   |                                                                                 |
|                    | A12                   | US-5,000,113                             | 3/19/1991                      | Wang, et al.                                       |                                                                                 |
|                    | A13                   | US-5,000,178                             | 3/19/1991                      | Griffith                                           |                                                                                 |
|                    | A14                   | US-5,011,706                             | 4/30/1991                      | Tarhay, et al.                                     |                                                                                 |
|                    | A15                   | US-5,086,014                             | 2/4/1992                       | Miyata, et al.                                     |                                                                                 |
|                    | A16                   | US-5,087,959                             | 2/11/1992                      | Omoni, et al.                                      |                                                                                 |
|                    | A17                   | US-5,224,441                             | 7/6/1993                       | Felts, et al.                                      |                                                                                 |
|                    | A18                   | US-5,238,866                             | 8/24/1993                      | Bolz, et al.                                       |                                                                                 |
|                    | A19                   | US-5,242,530                             | 9/7/1993                       | Batey, et al.                                      |                                                                                 |
|                    | A20                   | US-5,271,972                             | 12/21/1993                     | Kwok, et al.                                       |                                                                                 |
|                    | A21                   | US-5,298,587                             | 3/29/1994                      | Hu, et al.                                         |                                                                                 |
|                    | A22                   | US-5,298,597                             | 3/29/1994                      | You, et al.                                        |                                                                                 |
|                    | A23                   | US-5,360,491                             | 11/1/1994                      | Carey, et al.                                      |                                                                                 |
|                    | A24                   | US-5,362,526                             | 11/8/1994                      | Wang, et al.                                       |                                                                                 |
|                    | A25                   | US-5,465,680                             | 11/14/1995                     | Loboda                                             |                                                                                 |
|                    | A26                   | US-5,468,978                             | 11/21/1995                     | Dowben                                             |                                                                                 |
|                    | A27                   | US-5,480,300                             | 1/2/1996                       | Okoshi, et al.                                     |                                                                                 |
|                    | A28                   | US-5,494,712                             | 2/27/1996                      | Hu, et al.                                         |                                                                                 |

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



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(Use as many sheets as necessary)

Sheet 2

of

10

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Group Art Unit

2891

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|                       | A29                      | US-5,554,570                             | 9/10/1996                      | Maeda, et al.                                      |                                                                                 |
|                       | A30                      | US-5,565,084                             | 10/15/1996                     | Lee, et al.                                        |                                                                                 |
|                       | A31                      | US-5,591,566                             | 1/7/1997                       | Ogawa                                              |                                                                                 |
|                       | A32                      | US-5,607,773                             | 3/4/1997                       | Ahlburn, et al.                                    |                                                                                 |
|                       | A33                      | US-5,638,251                             | 6/10/1997                      | Goel, et al.                                       |                                                                                 |
|                       | A34                      | US-5,641,607                             | 6/24/1997                      | Ogawa, et al.                                      |                                                                                 |
|                       | A35                      | US-5,658,834                             | 8/19/1997                      | Dowben                                             |                                                                                 |
|                       | A36                      | US-5,691,209                             | 11/25/1997                     | Liberkowski                                        |                                                                                 |
|                       | A37                      | US-5,710,067                             | 1/20/1998                      | Foote, et al.                                      |                                                                                 |
|                       | A38                      | US-5,711,987                             | 1/27/1998                      | Bearinger, et al.                                  |                                                                                 |
|                       | A39                      | US-5,730,792                             | 3/24/1998                      | Camilletti, et al.                                 |                                                                                 |
|                       | A40                      | US-5,741,626                             | 4/21/1998                      | Jain, et al.                                       |                                                                                 |
|                       | A41                      | US-5,776,235                             | 7/7/1998                       | Camilletti, et al.                                 |                                                                                 |
|                       | A42                      | US-5,780,163                             | 7/14/1998                      | Camilletti, et al.                                 |                                                                                 |
|                       | A43                      | US-5,789,316                             | 8/4/1998                       | Lu                                                 |                                                                                 |
|                       | A44                      | US-5,789,776                             | 8/4/1998                       | Lancaster, et al.                                  |                                                                                 |
|                       | A45                      | US-5,817,572                             | 10/6/1998                      | Chiang, et al.                                     |                                                                                 |
|                       | A46                      | US-5,817,579                             | 10/6/1998                      | Ko, et al.                                         |                                                                                 |
|                       | A47                      | US-5,818,071                             | 10/6/1998                      | Loboda, et al.                                     |                                                                                 |
|                       | A48                      | US-5,855,681                             | 1/5/1999                       | Maydan, et al.                                     |                                                                                 |
|                       | A49                      | US-5,869,396                             | 2/9/1999                       | Pan, et al.                                        |                                                                                 |
|                       | A50                      | US-5,876,891                             | 3/2/1999                       | Takimoto, et al.                                   |                                                                                 |
|                       | A51                      | US-5,926,740                             | 7/20/1999                      | Forbes, et al.                                     |                                                                                 |
|                       | A52                      | US-5,976,979                             | 11/2/1999                      | Chen                                               |                                                                                 |
|                       | A53                      | US-5,989,998                             | 11/23/1999                     | Sugahara, et al.                                   |                                                                                 |
|                       | A54                      | US-6,045,877                             | 4/4/2000                       | Gleason, et al.                                    |                                                                                 |

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(Use as many sheets as necessary)

Sheet 3

of

10

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10/801,190

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First Named Inventor

Lihua Li, et al.

Group Art Unit

2891

Examiner Name

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Attorney Docket Number

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|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                       | A55                      | US-6,051,321                             | 4/18/2000                      | Lee, et al.                                        |                                                                                 |
|                       | A56                      | US-6,054,379                             | 4/25/2000                      | Yau, et al.                                        |                                                                                 |
|                       | A57                      | US-6,057,251                             | 5/2/2000                       | Goo, et al.                                        |                                                                                 |
|                       | A58                      | US-6,060,132                             | 5/9/2000                       | Lee                                                |                                                                                 |
|                       | A59                      | US-6,068,884                             | 5/30/2000                      | Rose, et al.                                       |                                                                                 |
|                       | A60                      | US-6,071,809                             | 6/6/2000                       | Zhao                                               |                                                                                 |
|                       | A61                      | US-6,072,227                             | 6/6/2000                       | Yau, et al.                                        |                                                                                 |
|                       | A62                      | US-6,080,526                             | 6/27/2000                      | Yang, et al.                                       |                                                                                 |
|                       | A63                      | US-6,107,192                             | 8/22/2000                      | Subrahmanyam, et al.                               |                                                                                 |
|                       | A64                      | US-6,124,641                             | 9/26/2000                      | Matsuura                                           |                                                                                 |
|                       | A65                      | US-6,140,226                             | 10/31/2000                     | Grill, et al.                                      |                                                                                 |
|                       | A66                      | US-6,147,009                             | 11/14/2000                     | Grill, et al.                                      |                                                                                 |
|                       | A67                      | US-6,153,537                             | 11/28/2000                     | Bacchetta, et al.                                  |                                                                                 |
|                       | A68                      | US-6,159,871                             | 12/12/2000                     | Loboda, et al.                                     |                                                                                 |
|                       | A69                      | US-6,242,339                             | 6/5/2001                       | Aoi                                                |                                                                                 |
|                       | A70                      | US-6,251,770                             | 6/26/2001                      | Uglow, et al.                                      |                                                                                 |
|                       | A71                      | US-6,287,990                             | 9/11/2001                      | Cheung et al.                                      |                                                                                 |
|                       | A72                      | US-6,291,334                             | 9/18/2001                      | Somekh                                             |                                                                                 |
|                       | A73                      | US-6,303,523                             | 10/16/2001                     | Cheung, et al.                                     |                                                                                 |
|                       | A74                      | US-6,312,793                             | 11/6/2001                      | Grill, et al.                                      |                                                                                 |
|                       | A75                      | US-6,316,167                             | 11/13/2001                     | Angelopoulos, et al.                               |                                                                                 |
|                       | A76                      | US-6,331,494                             | 12/18/2001                     | Olson, et al.                                      |                                                                                 |
|                       | A77                      | US-6,340,435                             | 1/22/2002                      | Bjorkman, et al.                                   |                                                                                 |
|                       | A78                      | US-6,340,628                             | 1/22/2002                      | Van Cleemput, et al.                               |                                                                                 |
|                       | A79                      | US-6,344,693                             | 2/5/2002                       | Kawahara, et al.                                   |                                                                                 |
|                       | A80                      | US-6,348,725                             | 2/19/2002                      | Cheung, et al.                                     |                                                                                 |
|                       | A81                      | US-6,350,670                             | 2/26/2002                      | Andideh, et al.                                    |                                                                                 |
|                       | A82                      | US-6,352,945                             | 3/5/2002                       | Matsuki, et al.                                    |                                                                                 |

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Sheet 4

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10/801,190

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|                    | A83                   | US-6,362,091                             | 3/26/2002                      | Andideh, et al.                                    |                                                                                 |
|                    | A84                   | US-6,383,955                             | 5/7/2002                       | Matsuki, et al.                                    |                                                                                 |
|                    | A85                   | US-6,409,238                             | 6/25/2002                      | Mikenis, et al.                                    |                                                                                 |
|                    | A86                   | US-6,410,462                             | 6/25/2002                      | Yang, et al.                                       |                                                                                 |
|                    | A87                   | US-6,410,463                             | 6/25/2002                      | Matsuki, et al.                                    |                                                                                 |
|                    | A88                   | US-6,413,583                             | 7/2/2002                       | Moghadam, et al.                                   |                                                                                 |
|                    | A89                   | US-6,432,846                             | 8/13/2002                      | Matsuki                                            |                                                                                 |
|                    | A90                   | US-6,436,824                             | 8/20/2002                      | Chooi, et al.                                      |                                                                                 |
|                    | A91                   | US-6,437,443                             | 8/20/2002                      | Grill, et al.                                      |                                                                                 |
|                    | A92                   | US-6,441,491                             | 8/27/2002                      | Grill, et al.                                      |                                                                                 |
|                    | A93                   | US-6,444,568                             | 9/3/2002                       | Sundararajan, et al.                               |                                                                                 |
|                    | A94                   | US-6,455,445                             | 9/24/2002                      | Matsuki, et al.                                    |                                                                                 |
|                    | A95                   | US-6,465,366                             | 10/15/2002                     | Nemani, et al.                                     |                                                                                 |
|                    | A96                   | US-6,479,110                             | 11/12/2002                     | Grill, et al.                                      |                                                                                 |
|                    | A97                   | US-6,479,409                             | 11/12/2002                     | Shioya, et al.                                     |                                                                                 |
|                    | A98                   | US-6,486,061                             | 11/26/2002                     | Xia, et al.                                        |                                                                                 |
|                    | A99                   | US-6,486,082                             | 11/26/2002                     | Cho, et al.                                        |                                                                                 |
|                    | A100                  | US-6,489,238                             | 12/3/2002                      | TSUI                                               |                                                                                 |
|                    | A101                  | US-6,500,773                             | 12/31/2002                     | Gaillard, et al.                                   |                                                                                 |
|                    | A102                  | US-6,511,903                             | 1/28/2003                      | Yau, et al.                                        |                                                                                 |
|                    | A103                  | US-6,511,909                             | 1/28/2003                      | Yau, et al.                                        |                                                                                 |
|                    | A104                  | US-6,521,300                             | 2/18/2003                      | Hsieh, et al.                                      |                                                                                 |
|                    | A105                  | US-6,521,302                             | 2/18/2003                      | CAMPANA-SCHMITT, ET AL.                            |                                                                                 |
|                    | A106                  | US-6,528,423                             | 3/4/2003                       | Catabay, et al.                                    |                                                                                 |
|                    | A107                  | US-6,531,714                             | 3/11/2003                      | Bacchetta, et al.                                  |                                                                                 |
|                    | A108                  | US-6,532,150                             | 3/11/2003                      | Sivertsen, et al.                                  |                                                                                 |
|                    | A109                  | US-6,537,733                             | 3/25/2003                      | Campana, et al.                                    |                                                                                 |
|                    | A110                  | US-6,537,929                             | 3/25/2003                      | Cheung, et al.                                     |                                                                                 |
|                    | A111                  | US-6,541,282                             | 4/1/2003                       | Cheung, et al.                                     |                                                                                 |

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Examiner

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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 6

of

10

Application Number

10/801,190

Filing Date

March 15, 2004

First Named Inventor

Lihua Li, et al.

Group Art Unit

2891

Examiner Name

Granvill D. Lee

Attorney Docket Number

APPM/008670/DSM/LOW K/JW

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Sheet 7

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|                                                                                                                                                         |       | Group Art Unit         | 2891                     |
|                                                                                                                                                         |       | Examiner Name          | Granvill D. Lee          |
|                                                                                                                                                         |       | Attorney Docket Number | APPM/008670/DSM/LOW K/JW |
| Sheet 9                                                                                                                                                 | of 10 | Submission Date        | September 29, 2005       |

## PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T <sup>2</sup> |
|--------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
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|                    | C2                    | FUKUDA, ET AL. "Highly Reliable SiOF Film Formation by ECR-CVD Using SiF <sub>2</sub> H <sub>2</sub> ", Symposium on VLSI Technology Digest of Technical Papers IEEE (1996) pp. 114-115.                                                                       |                |
|                    | C3                    | Ogawa et al., "Novel ARC Optimization Methodology for KrF Excimer Laser Lithography at Low K1 Factor", Proceedings of the SPIE. Optical/Laser Microlithography V, vol. 1674, 1992, pages 362-375.                                                              |                |
|                    | C4                    | Omar, M.A., "Elementary Solid State Physics: Principles and Applications," Lowell Technological Institute, Addison-Wesley Publishing Company, © 1975, Pages: 124, 125.                                                                                         |                |
|                    | C5                    | PCT International Search Report dated February 11, 2000 for PCT/US99/22425.                                                                                                                                                                                    |                |
|                    | C6                    | PCT International Search Report for PCT/US2004/006849, dated January 19, 2005 (AMAT/7838.PC)                                                                                                                                                                   |                |
|                    | C7                    | PCT International Search Report for US/02/36229, dated September 3, 2003 (AMAT/6392.PC)                                                                                                                                                                        |                |
|                    | C8                    | PCT International Written Opinion for PCT/US2004/006849, dated January 19, 2005 (AMAT/7838.PC)                                                                                                                                                                 |                |
|                    | C9                    | PCT Partial International Search Report dated March 21, 2000, for PCT/US99/22317.                                                                                                                                                                              |                |
|                    | C10                   | PCT Partial International Search Report for PCT/US2004/006849, dated October 15, 2004 (AMAT/7838.PC)                                                                                                                                                           |                |
|                    | C11                   | PCT/International Search Report for US/02/40034 dated May 19, 2003                                                                                                                                                                                             |                |
|                    | C12                   | TAJIMA, ET AL. "Characterization of Plasma Polymers from Tetramethylsilane, Octamethylcyclotetrasiloxane, and Methyltrimethoxysilane" Journal of Polymer Science: Part A: Polymer Chemistry, Vol. 25 (1987) pp. 1737-1744.                                     |                |

Examiner

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO

**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 10

of 10

Application Number

10/801,190

Filing Date

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First Named Inventor

Lihua Li, et al.

Group Art Unit

2891

Examiner Name

Granvill D. Lee

Attorney Docket Number

APPM/008670/DSM/LOW K/JW

Submission Date

September 29, 2005

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T <sup>2</sup> |
|--------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                    | C13                   | U.S. Patent Application No. 09/270,039, filed on March 16, 1999, Huang. (AMAT/2966.X3)                                                                                                                                                                         |                |
|                    | C14                   | U.S. Patent Application Serial No. 11/142,124, filed on June 1, 2005 (APPM/009516)                                                                                                                                                                             |                |
|                    | C15                   | Written Opinion, from PCT/US99/22424, dated April 5, 2001. (AMAT/2966.03 PC)                                                                                                                                                                                   |                |
|                    | C16                   | Wu, et al "Advanced Metal Barrier Free Cu Damascene Interconnects with PECVD Silicon Carbide Barriers for 90/65-nm BEOL Technology", 2002 IEEE, IEDM Pages 595-598.                                                                                            |                |
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